



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
G.K. Surya PRAKASH et al.

Confirmation No.: 6564

Patent No.: 6,872,855 B1

Application No.: 10/721,423

Patent Date: March 29, 2005

Filing Date: November 26, 2003

For: METHOD FOR EXPEDIENT
SYNTHESIS OF [^{18}F]-LABELED
 α -TRIFLUOROMETHYL KETONES

Attorney Docket No.: 81722-4100

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.322

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate
JUN 17 2005
of Correction

Sir:

Patentees hereby respectfully request the issuance of a Certificate of Correction in connection with the above-identified patent. The corrections are listed on the attached Form PTO-1050, submitted in duplicate. The corrections requested are as follows:

Title Page:

Item (56) **References Cited**, OTHER PUBLICATIONS:

Hideki Amii et al. reference: change " Mg^0 -promoted" to -- Mg^0 -promoted --; and change "systhesis" to -- synthesis --.

Michael H. Gelb et al. reference: delete "'Fluoro Ketone Inhibitors of Hydrolytic Enzymes; Biochemistry", American Chemical Society", and insert -- "Fluoro Ketone Inhibitors of Hydrolytic Enzymes," Biochemistry, --.

Lori H. Takahashi et al. reference: delete "'Crystallographic Analysis of the INhibition of Procine Pancreatic Elastase by a Peptidyl Boronic Acit: Structure of a Reaction Intermediate; Biochemistry" American Chemical Society, 1989, 28, 7610-7617" and insert -- "Crystallographic Analysis of the Inhibition of Porcine Pancreatic Elastase by a Peptidyl Boronic Acid: Structure of a Reaction Intermediate," Biochemistry, 1998, 28, 7610-7617 --.

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DC:421072.1

JUN 20 2005

Tina S. Morris et al. reference: change "Bioorganic & Mecicinal Chemistry" to -- Bioorganic & Medicinal Chemistry --.

Masami Kawase et al. reference: change " α -Trifluoromethylatec Acyloins Induced" to -- " α -Trifluoromethylated Acyloins Induce --.

Xaier Creary reference: change " α Keto" to -- α -Keto --.

Jurgen Wiedemann et al. reference: change "Agnes. Chem. Int. Ed." to -- Agnew. Chem Int. Ed. --.

G.K. Surya Prakash et al. reference: change " α -halodifluoromethyl ketones and [18]-labeled" to -- α -halodifluoromethyl ketones and [18 F]-labeled --.

The above changes are requested merely to correct typographical errors.

A fee of \$100 is believed to be due for this request. Please charge the required fees to Winston & Strawn LLP Deposit Account No. 50-1814. Please issue a Certificate of Correction in due course.

Respectfully submitted,

6-14-05

Date



Allan A. Fanucci, Reg. No. 30,256

WINSTON & STRAWN LLP
Customer No. 28765

212-294-3311

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO.: 6,872,855 B1
DATED: March 29, 2005
INVENTORS: Prakash et al.

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(12) **United States Patent**
Prakash et al.

(10) Patent No.: **US 6,872,855 B1**
(45) Date of Patent: **Mar. 29, 2005**

(54) **METHOD FOR EXPEDIENT SYNTHESIS OF [18F]-LABELED α -TRIFLUOROMETHYL KETONES**

(75) Inventors: **G. K. Surya Prakash**, Hacienda Heights, CA (US); **Mian M. Alauddin**, Alhambra, CA (US); **Jinbo Hu**, Los Angeles, CA (US); **Peter S. Conti**, Pasadena, CA (US); **George A. Olah**, Beverly Hills, CA (US)

(73) Assignee: **University of Southern California**, Los Angeles, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **10/721,423**

(22) Filed: **Nov. 26, 2003**

Related U.S. Application Data

(60) Provisional application No. 60/429,602, filed on Nov. 27, 2002.

(51) Int. Cl.⁷ **C07C 45/00**; G21G 1/06; G06K 9/00

(52) U.S. Cl. **568/323**; 568/325; 376/168; 382/130; 382/131

(58) Field of Search 568/323, 325; 376/168; 382/130, 131

(56) **References Cited**

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G.K. Surya Prakash, et al.; "Expedient synthesis of [¹⁸F]-labeled α -trifluoromethyl ketones" *Journal Of Labelled Compounds And Radiopharmaceuticals*. J. Label Compd Radiopharm 2003; 46: 1087-1092.

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G.K. Surya Prakash et al.; Facile preparation of di- and monofluoromethyl ketones from trifluoromethyl ketones via fluorinated enol silyl ethers; *Journal of Fluorine chemistry* 112 (2001) 357-362.

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Primary Examiner—Johann Richter

Assistant Examiner—Sikarl A. Witherspoon

(74) Attorney, Agent, or Firm—Winston & Strawn LLP

(57) **ABSTRACT**

The present invention is directed to a convenient method of synthesizing radiolabeled α -trifluoromethyl ketones by a fluorination reaction. The present invention also relates to imaging agents and markers for identifying cell proliferation, or viral infection. The markers and imaging agents including the radiolabeled α -trifluoromethyl ketones that are prepared by the present method.

23 Claims, 3 Drawing Sheets

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